

FIG. 1A (PRIOR ART)

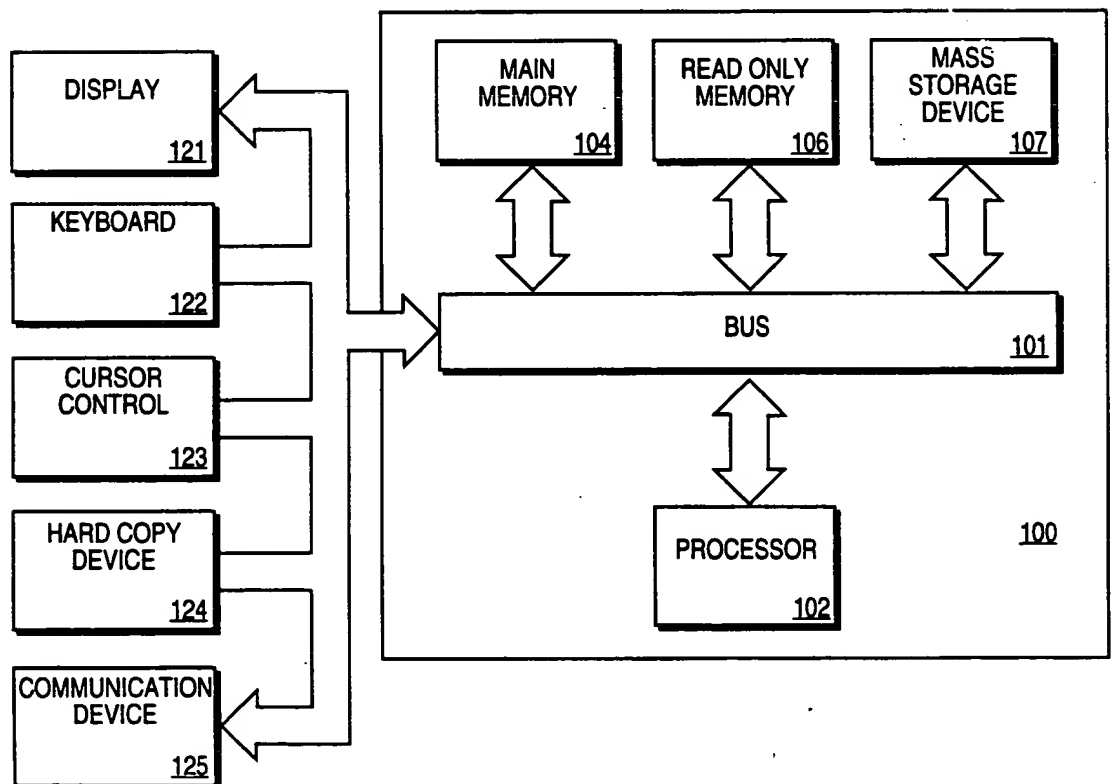


FIG. 1B (PRIOR ART)

000000-2460960

OVERALL STRUCTURE OF A SINGLE AGENT

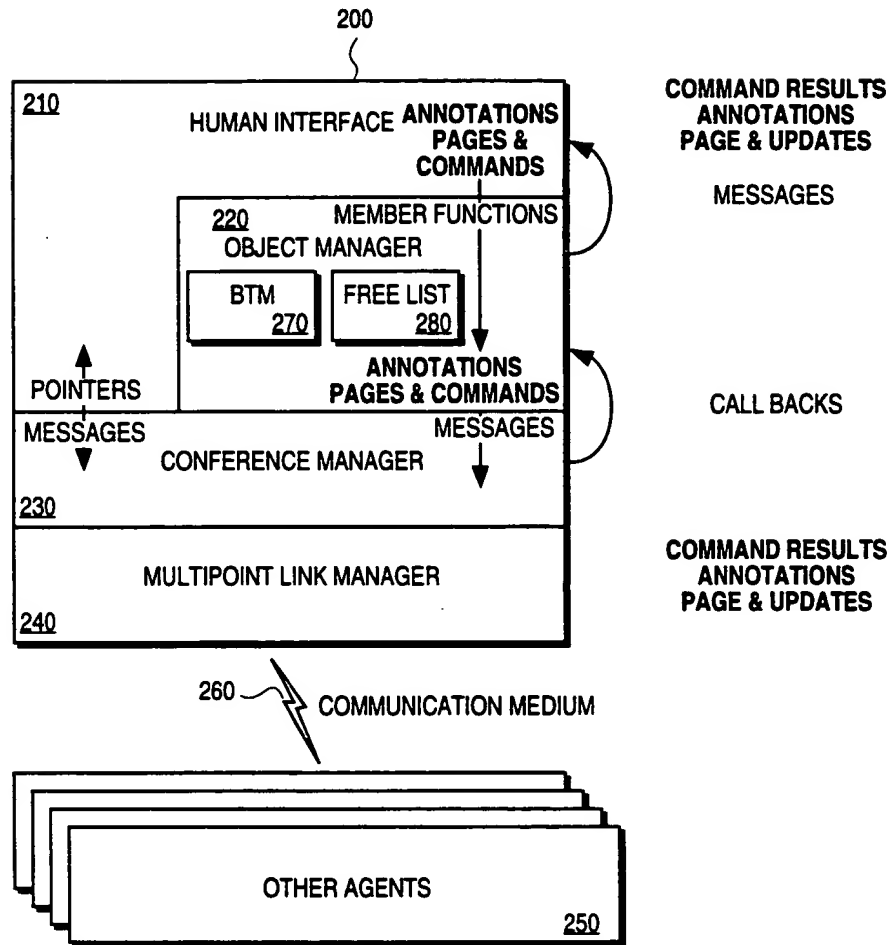


FIG. 2

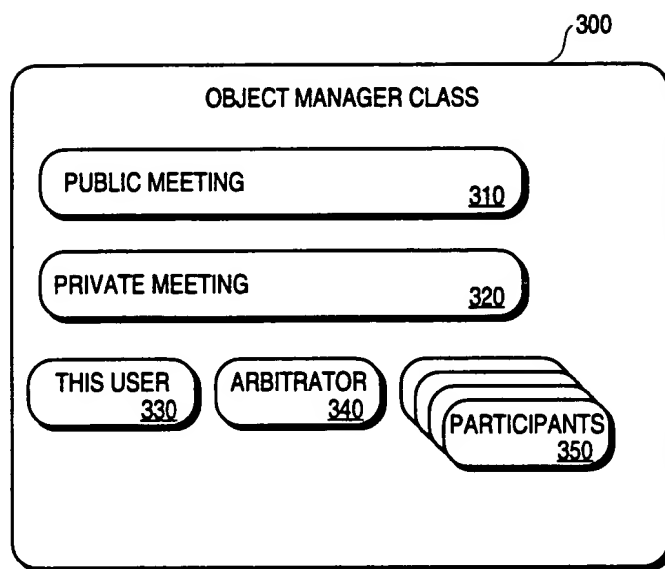


FIG. 3 (PRIOR ART)

MEETING

PAGES

GRAPHIC ANNOTATIONS

411

412

DRAWING ANNOTATIONS

413

TEXTUAL ANNOTATIONS

410

400

FIG. 4 (PRIOR ART)

LOCAL PARTICIPANT

REMOTE PARTICIPANT(S)

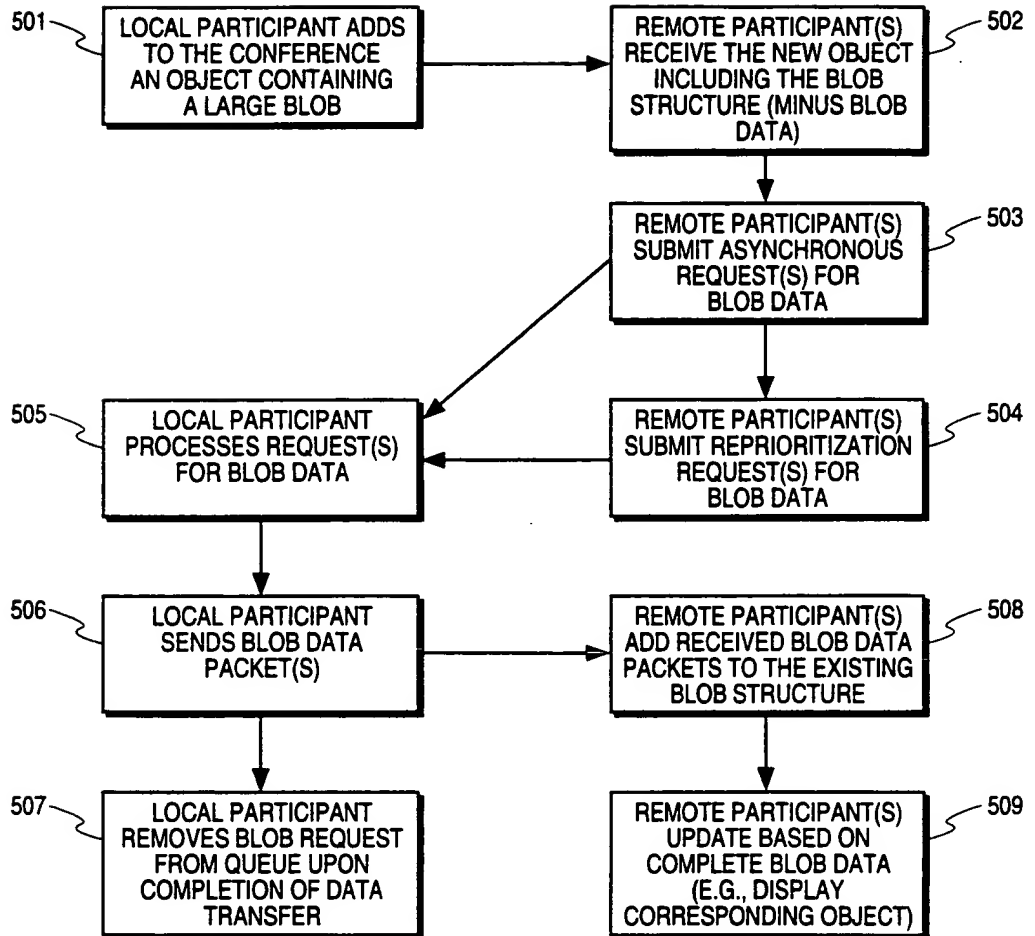


FIG. 5 (PRIOR ART)

FIRST PARTICIPANT

THIRD PARTICIPANT

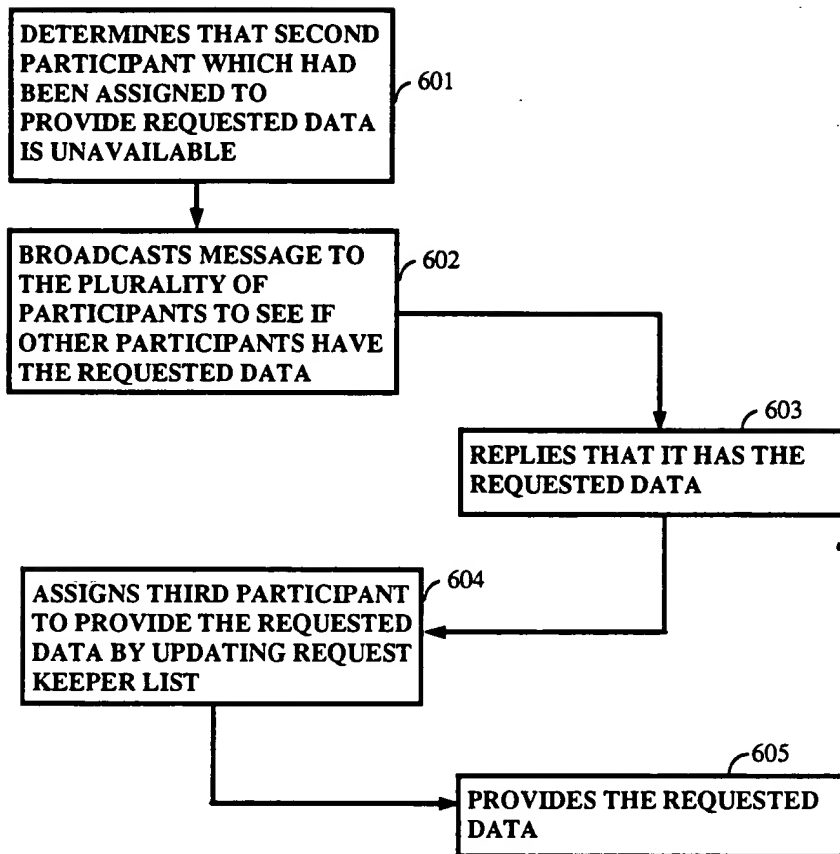


FIG. 6

FIRST PARTICIPANT

SECOND PARTICIPANT

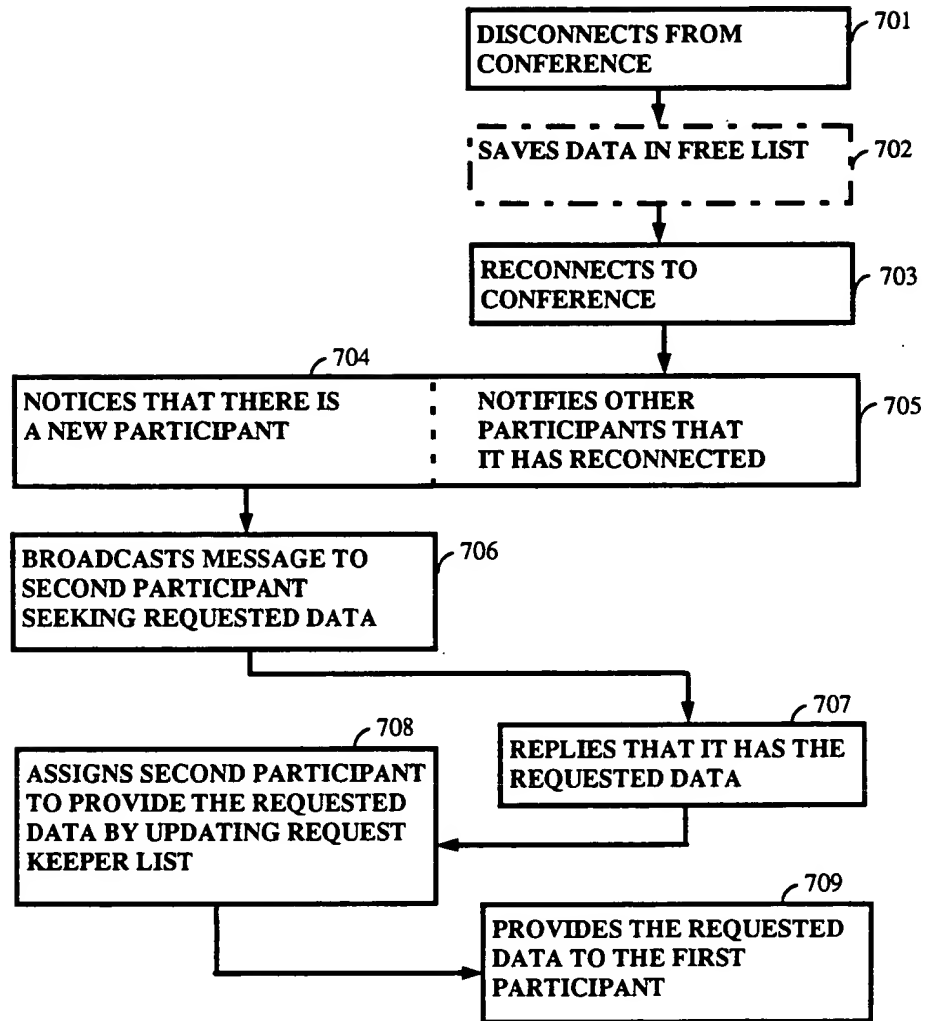


FIG. 7

```

graph TD
    800([START]) --> 802{BTM  
DISABLED?}
    802 -- Yes --> 804{{1}}
    802 -- No --> 806[SWITCH TO INTERNAL TIMER  
timeInBtm := timerInternal.Time()  
timerInternal.reset()  
timerExternal.stop();]
    806 --> 808[SEND REQUESTS]
    808 --> 810{timerExternal.Time  
< timeInBtm +  
timeBackoffOffset}
    810 -- Yes --> 812{{3}}
    810 -- No --> 814{{2}}
  
```

Flowchart 800: BTM Disabled?

- Start (800) leads to decision 802: BTM DISABLED?
- If Yes (802), proceed to connector 1 (804).
- If No (802), proceed to process 806: SWITCH TO INTERNAL TIMER.
 - timeInBtm := timerInternal.Time()
 - timerInternal.reset()
 - timerExternal.stop();
- Process 806 leads to process 808: SEND REQUESTS.
- Process 808 leads to decision 810: timerExternal.Time < timeInBtm + timeBackoffOffset.
- If Yes (810), proceed to connector 3 (812).
- If No (810), proceed to connector 2 (814).

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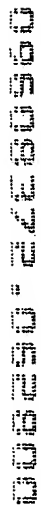


FIG. 8b

005032-05300

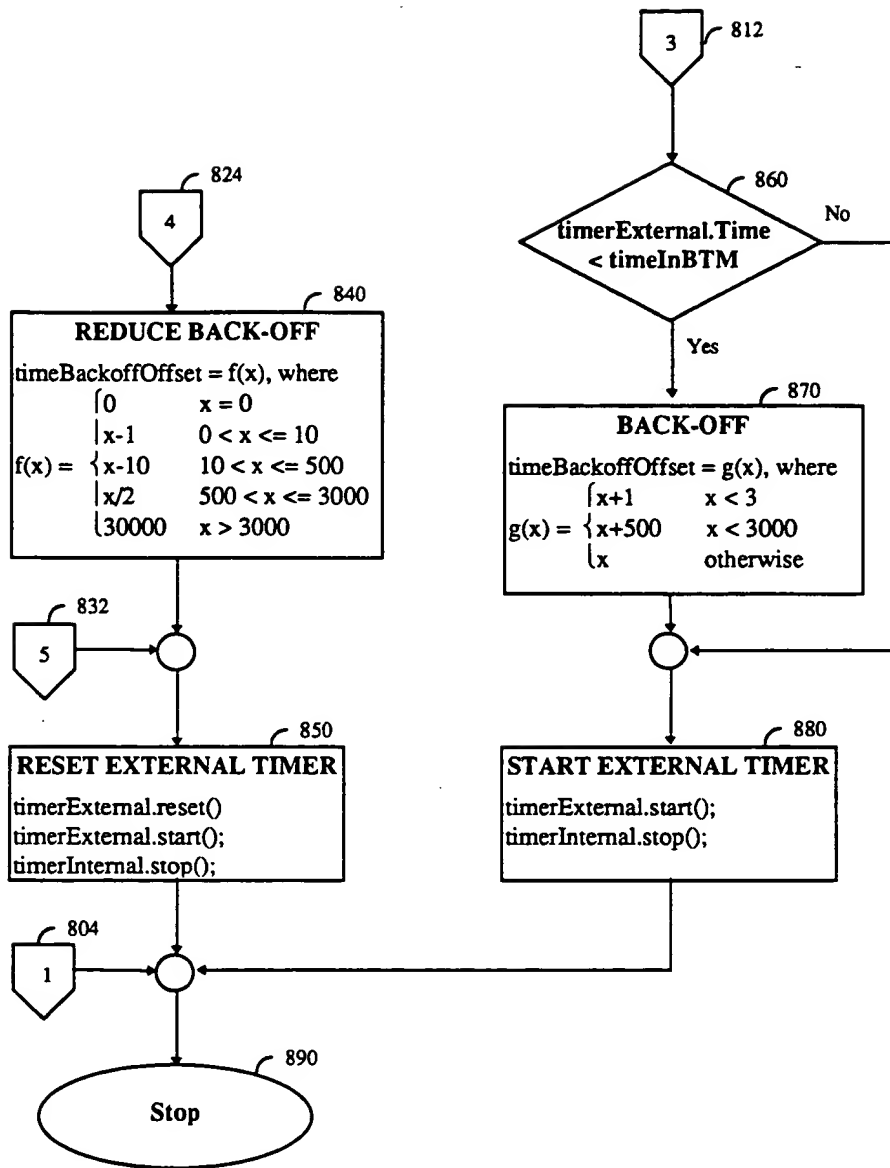


FIG. 8c

```
graph TD
    901([START]) --> 902[START INTERNAL TIMER  
timerInternal.start()  
timerExternal.stop();]
    902 --> 903[PROCESS DATA RECEIVED  
Handle message by applying data to blob.]
    903 --> 904[START EXTERNAL TIMER  
timerExternal.start();  
timerInternal.stop();]
    904 --> 905{timeBackoffOffset > 500}
    905 -- Yes --> 906[SEND BACK-OFF MESSAGE  
Tell data provider (blob keeper) to reduce data transmission rate.]
    905 -- No --> 907(( ))
    906 --> 907
    907 --> 908([Stop])
```

The flowchart illustrates the logic for controlling data transmission rate based on timer feedback. It begins with a **START** terminal (901), which leads to the **START INTERNAL TIMER** process (902). This process initializes `timerInternal.start()` and `timerExternal.stop()`. The flow then proceeds to the **PROCESS DATA RECEIVED** process (903), which handles incoming messages by applying them to a blob. Following this, the **START EXTERNAL TIMER** process (904) is executed, which starts `timerExternal.start()` and stops `timerInternal.stop()`. The flow then enters a decision diamond (905) to check if `timeBackoffOffset > 500`. If the condition is **Yes**, the flow proceeds to the **SEND BACK-OFF MESSAGE** process (906), which instructs the data provider (blob keeper) to reduce the data transmission rate. If the condition is **No**, the flow bypasses the back-off message and proceeds to a junction point (represented by a circle). Both paths converge at this junction point, which then leads to the **Stop** terminal (907).

```

graph TD
    910([START]) --> 912[BACK-OFF]
    912 --> 914([STOP])
    subgraph 912 [BACK-OFF]
        direction TB
        A["timeBackoffOffset = g(x), where"]
        B["g(x) = { x+1            x < 3  
          { x+500        x < 3000  
          { x             otherwise"]
    end

```

FIG. 10

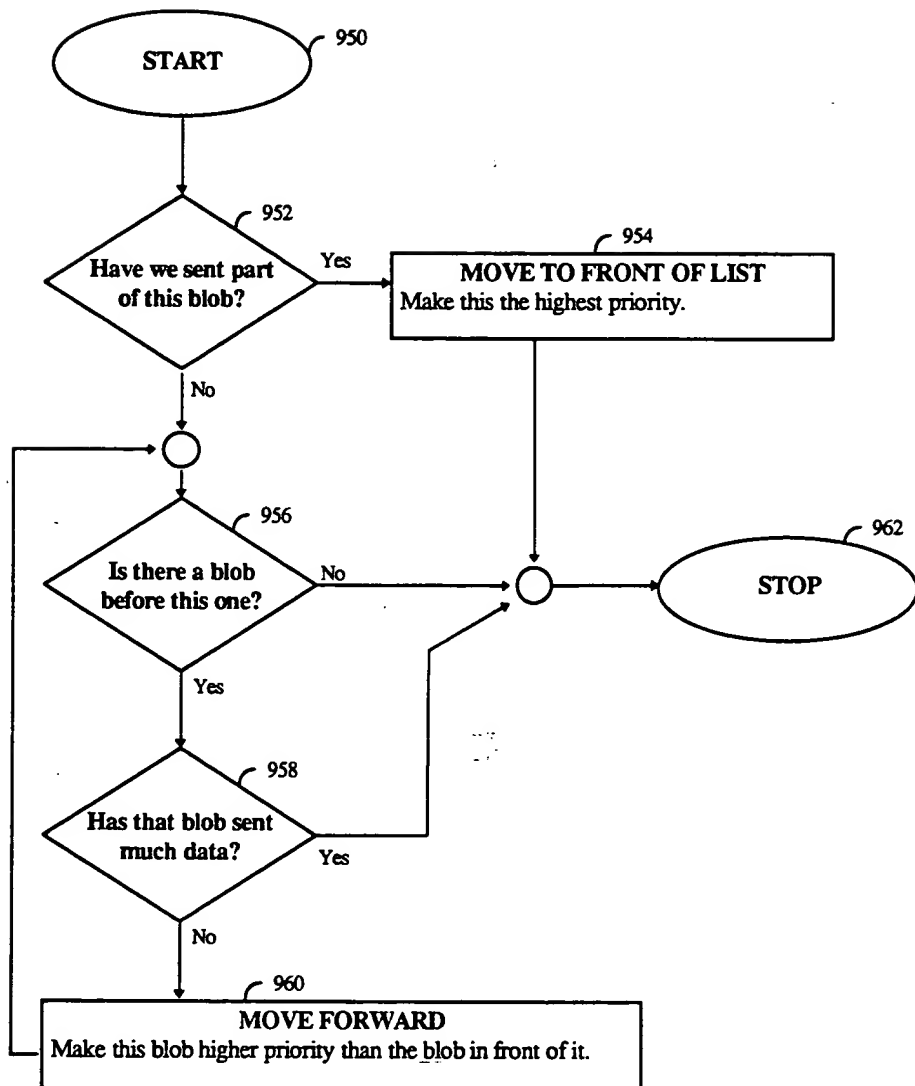


FIG. 11